TARTER

FARM AND RANCH EQUIPMENT

MRC

ERCRH

ERCRHT

ERCRHTP

ROPING CHUTES

OPERATION & USER MANUAL

MRC • ERCRH • ERCRHT • ERCRHTP

INTRODUCTION

TO THE OWNER:

Read this manual before operating your equipment. Keep this manual handy for ready reference. Require all operators to read this manual carefully and become acquainted with all adjustments and operating procedures before attempting to operate the equipment. Replacement manuals can be obtained from your selling dealer.

The equipment you have purchased has been carefully engineered and manufactured to provide dependable and satisfactory use. Like all mechanical products, it will require cleaning and upkeep. Lubricate the unit as specified. Please observe all safety information in this manual and safety decals on the equipment.

IT IS THE PURCHASER AND/OR OPERATOR'S RESPONSIBILITY TO....

Read and understand the information contained in this manual.

Operate, lubricate, assemble and maintain the equipment in accordance with all instructions and safety procedures in this manual.

Inspect the equipment and replace or repair any parts that are damaged or worn which under continued operation would cause damage, wear to other parts, or cause a safety hazard.

Return the equipment or parts to the authorized dealer, from where it was purchased, for service or replacement of defective parts that are covered by warranty. (Manufacturer may inspect equipment or parts before warranty claims are honored.)

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All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. Tarter reserves the right to make changes at any time without notice.

TO THE PURCHASER:

This manual contains valuable information about your new Roping Chute. It has been carefully prepared to give you helpful suggestions for operating, adjusting, servicing and ordering repair parts.

Keep this manual in a convenient place for quick and easy reference. Study it carefully. You have purchased a dependable and sturdy chute, but proper care and operation is required to receive the service and long life designed and built into it.

CUSTOMER INFORMATION

Name _____

Purchased From _____

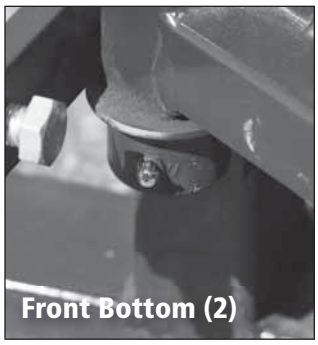
Date Purchased _____

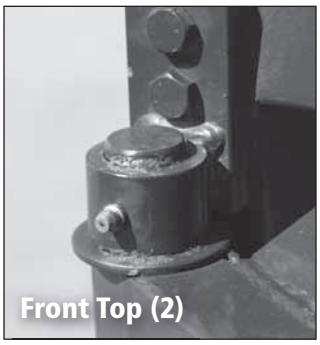
Model No. _____

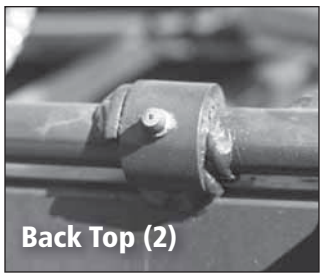
Serial No. _____

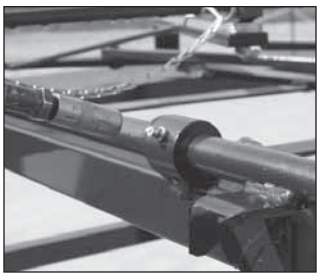
LUBRICATION

FOR MODELS: MRC • ERCRH • ERCRHT • ERCRHTP



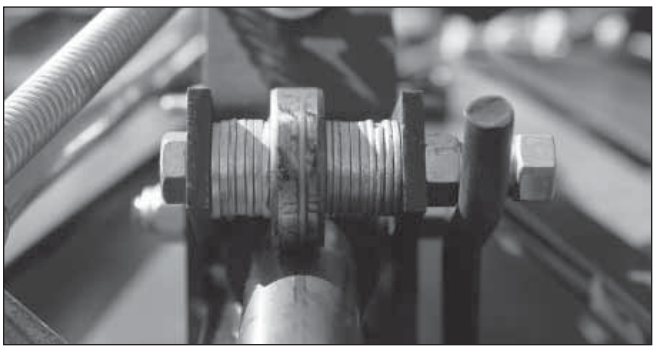




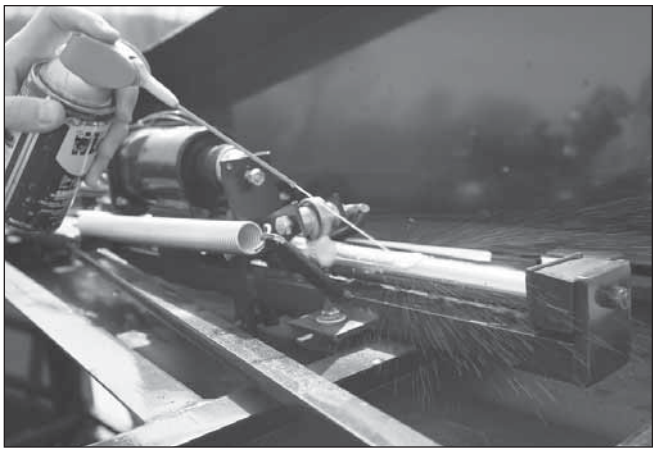


1. Using waterproof grease, thoroughly grease all zerks on chute.

2. Using a spray lubricant, spray the rear connecting rod to lubricate.

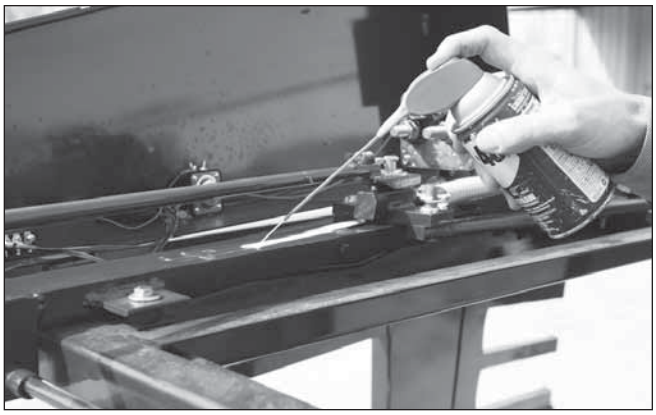


3. Raise the hood on your chute. Using a spray lubricant to spray the roller wheel latch mechanism.



4. Spray lubricant on top of large plunger rod under the hood.

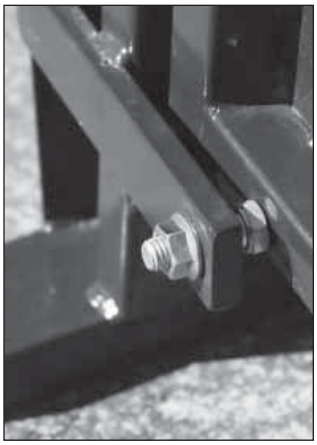
5. Inspect the chute spraying lubricant on all pivot points and other moving contact points.

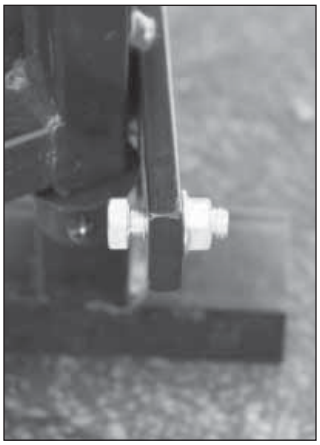


6. Under the hood, spray the sliding bed behind the large plunger rod to lubricate.

HEADGATE BOUNCEBACK ADJUSTMENT

FOR MODELS: MRC • ERCRH • ERCRHT • ERCRHTP





Your chute has a unique system to eliminate bounceback and flutter. It should be set correctly from the factory. However, if it needs adjusting after shipping follow these steps to set.

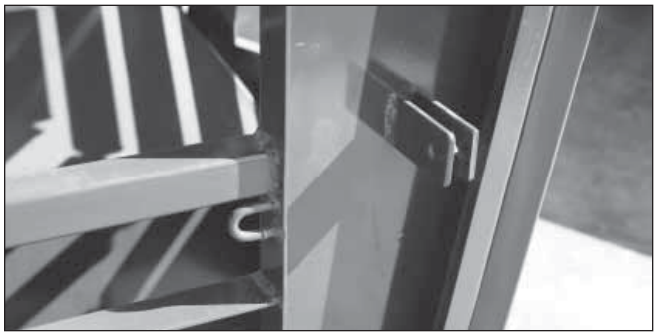
TO SET:

1. Loosen the lock nut on the outside using 3/4" wrench.
2. Turn the bolts clockwise to reduce the length.
3. Open the headgate doors.
4. Using fingers only, turn the sizing bolt counter clockwise until it barely makes contact with the bottom of the door.
5. Holding the bolt steady, carefully tighten the lock nut with wrench.

WARNING: If the bounceback is adjusted too tightly against the bottom of the doors, the doors will not close after opening. If this occurs, you must release the lock nut and back the bolt down to take excess pressure off the doors so they will release.

BARRIER HOOKUP

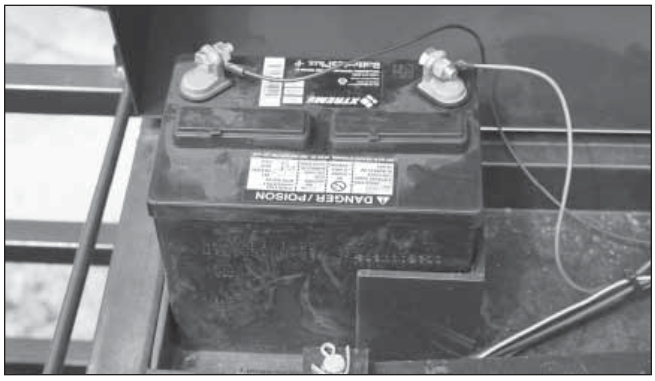
FOR MODELS: MRC • ERCRH • ERCRHT • ERCRHTP



1. Your chute is equipped with barrier hooks for effective barrier management.

SETUP/ADJUSTING AIR & ELECTRIC CHUTE

FOR MODELS: ERCRH • ERCRHT • ERCRHTP



1. Your chute is equipped with a battery that is charged by a top mounted solar panel. Make sure that all battery connections are in place and secure.

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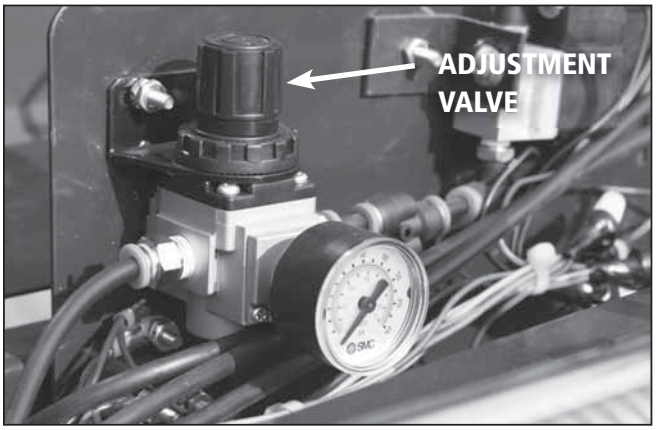


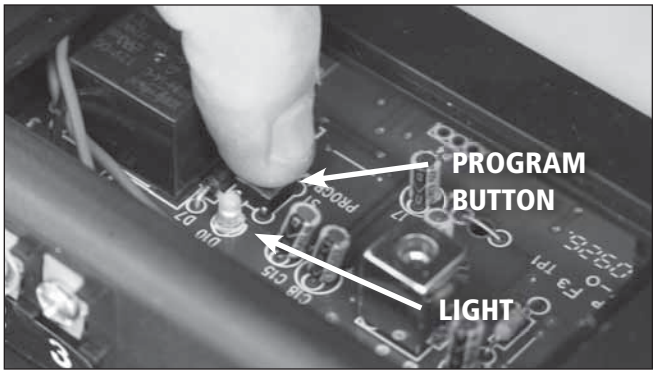
2. Chutes relying on an air operation have air jacks and air regulators. Once air has been connected, make sure that the gauge reads 85-95 PSI. To change the pressure, slowly turn the adjustment valve to the right to increase pressure and to the left to decrease pressure.

NOTE: A water separator is recommended on the air system reducing the chance of valve and cylinder damage caused by moisture.

NOTE: The air chute can also be operated with a high pressure gas cylinder bottle with proper high pressure regulator. See your local gas cylinder bottle supplier for recommended equipment.

ELECTRIC CHUTE REMOTE CONFIGURATION

FOR MODELS: ERCRH



1. The single button remote for your electric chute (ERCRH) comes pre-programmed from the factory.

2. In the event that your remote is lost or damaged and is replaced, you may need to have your remote "re-learn".

3. Using a small screwdriver, pop the top off the relay box.

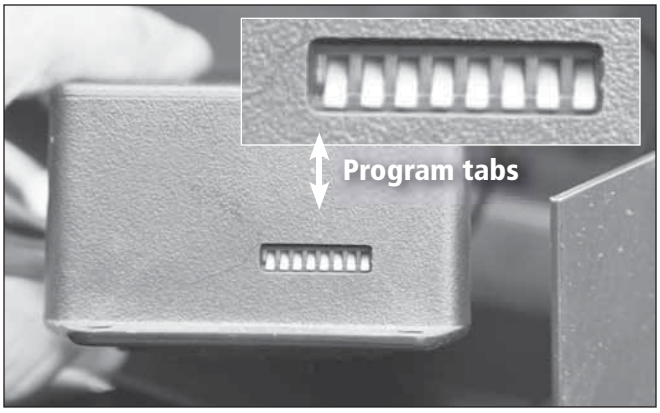
4. Push and hold learn button until light turns on and then release learn button.

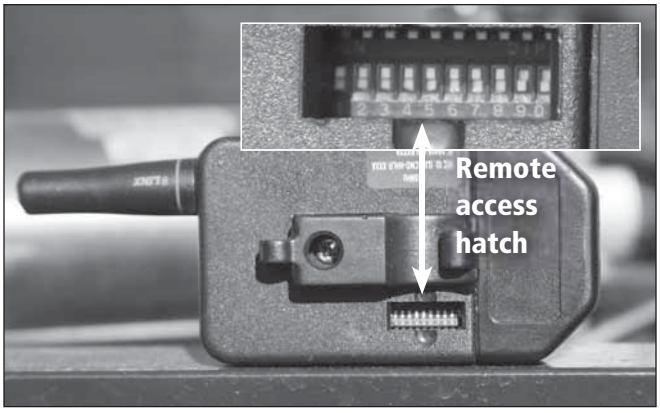
5. Push and hold your single button remote for 3-5 seconds.

6. Your single button remote should now be programmed.

AIR CHUTE REMOTE CONFIGURATION

FOR MODELS: ERCRHT • ERCRHTP

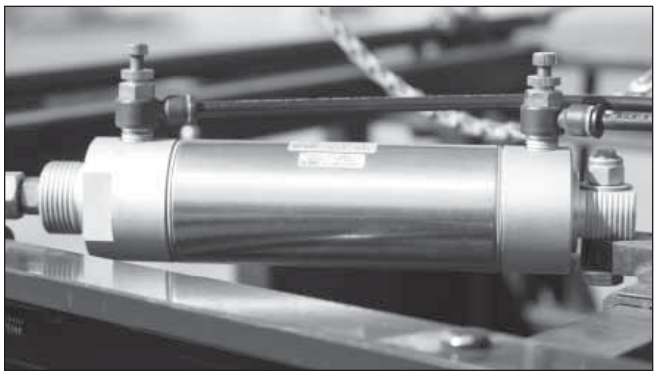




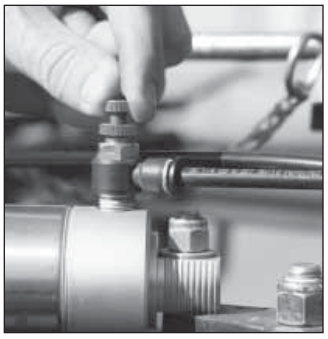
1. Your 4-button remote should come pre-programmed from the factory.
2. In the event that a new remote needs to be programmed, locate the program tabs on the side of the relay box. Assure that all tabs are in down position.
3. Remove the remote access hatch from your 4-button remote. Assure that 9 and 0 are in down position and all others are in up position.
4. Your 4-button remote should now be programmed.

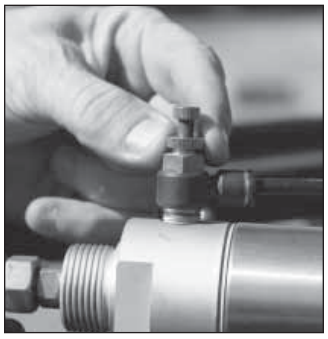
AIR CYLINDER ADJUSTMENTS

FOR MODELS: ERCRHT • ERCHRTP



The rear air cylinder on your air-driven chutes controls both the front and rear gates. To adjust the opening and closing speed of these gates:



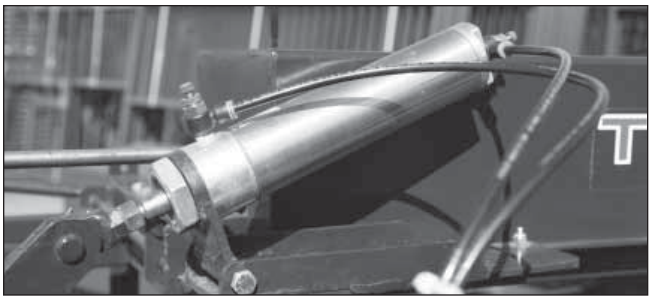


1. Loosen outer jam nut and turn center adjustment screw to the right to slow down travel speed. Turn the center adjustment to the left to increase speed.

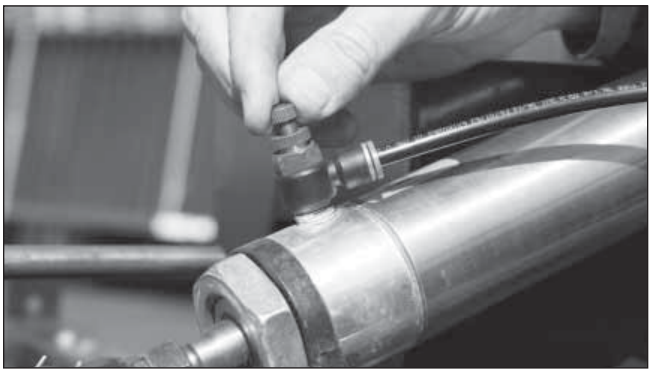
NOTE: In the event that the chute needs to be operated manually, see the Converting Your Air or Pusher Chute to Full Manual Chute section on page 9.

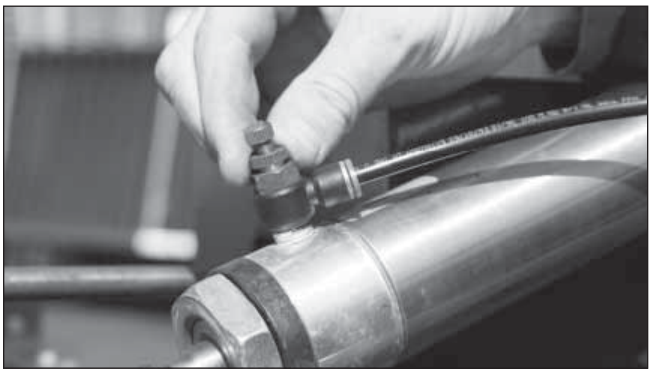
PUSHER BAR ADJUSTMENTS

FOR MODELS: ERCRHTP



Your pusher model chute comes equipped with a second air-cylinder just for operation of the pusher bar. To adjust pusher bar speed:

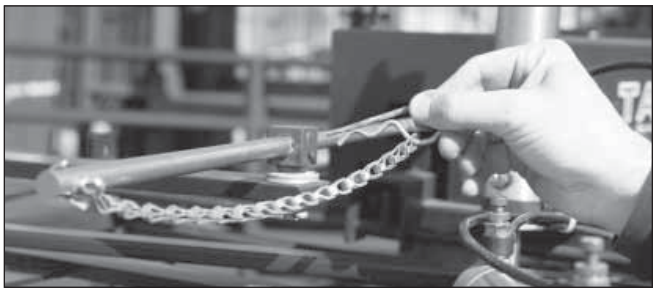




1. Loosen outer jam nut and turn center adjustment screw to the right to slow down travel speed. Turn the center adjustment to the left to increase speed.

HEADGATE AND TAILGATE OVER-RIDE CONNECTION

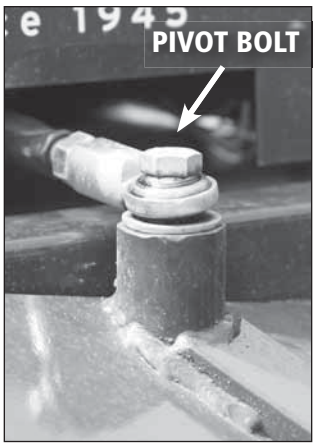
FOR MODELS: MRC • ERCRH • ERCRHT • ERCHRTP

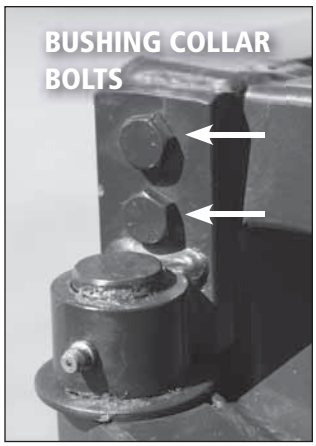


1. To have the front headgate and rear tailgate open simultaneously, remove the pin on the rear of the connector rod.
2. Open the headgate.
3. Open the tailgate.

REMOVING HEADGATE

MRC • ERCRH • ERCRHT • ERCRHTP

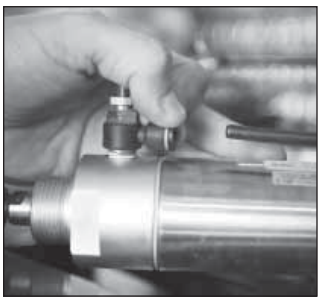
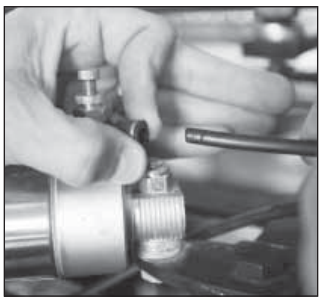




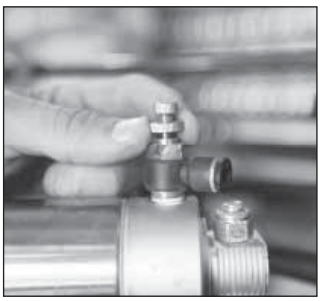
1. Remove the top pivot bolt on top of the headgate.
2. Remove the two bushing collar bolts and lift collar up.
3. Lift door straight up to remove.

CONVERTING YOUR ELECTRIC CHUTE TO FULL MANUAL CHUTE

FOR MODELS: ERCRHT • ERCRHTP

1. Remove hoses from the air cylinders by pushing in the plastic hose clamp on air fitting located on the air cylinder and then pulling out the hose.



2. Loosen jam nut on top of hose fitting which allows you to turn center air metering valve to the fully open position allowing maximum air flow.

3. Remove pin clip from the air cylinder pin and place in the hole directly behind the air cylinder latch to keep air cylinder latch release from interfering with gate latch.

4. You are now ready to operate chute with manual release handle and rear gate handle.

SOLAR PANEL INFORMATION GUIDE

FOR MODELS: ERCRH • ERCRHT • ERCRHTP

Your solar panel is a 5 watt/350 mA unit.

Specifications:

- Power Rating: Up to 5 Watts
- Current: 350mAmps @ 15V

What type of batteries does this panel maintain?
All rechargeable 12V batteries like those used in Cars, Boats, RV's, Motorcycles and PWC's.

Can I use this solar panel outdoors?
Yes, this solar panel is weatherproof. The weatherproofing includes UV protection and protects from weather effects of - 35°F to 175°F (-37°C to 79°C).

How long does it take to charge a battery?
This solar panel can generates 5 Watts pf power per hour, which is equal to 350mA of current under ideal conditions. For example, under ideal conditions, the panel will generate 5 Watts x 7 hours x 7 days per week for a total of 245 Watts of power.

Can I extend the wire?
Without loss of power or voltage the 9.5' wire may be extended to a maximum length of 25' with 16 gauge wire. Ensure proper connections.

How do I know if the panel is working?
To measure the voltage of the panel use a voltmeter. The voltage reading should be between 16 and 25 Volts in full sun.

TROUBLESHOOTING GUIDE

MODELS MRC, ERCRH, ERCRHT, & ERCRHTP

Problem	Possible Cause	Possible Remedy
Headgate won't open	1.) The 1/2 rear connecting rod is dry or gummed up 2.) The 1" chrome shaft located under top cover is dry or gummed up 3.) The 12" headgate spring located under the top cover is disconnected	1.) Clean and /or lubricate with a light lubricant (WD40) 2.) Clean and /or lubricate with a light lubricant (WD40) 3.) Reconnect or replace spring if broken
Headgate won't latch closed	1.) The latch is not camming over the end of 1" chrome shaft. 2.) The small latch spring is disconnected or broken, (this is the 3/8 x3" spring connected to the latch)	1.) Lubricate hinge points on front latch with light lubricant (WD40) 2.) Reconnect or replace the spring Insure the slip key is installed in the rear 1/2 connecting rod behind the pivot block that pulls front gates closed
Headgates won't latch open preventing bounce back	The bottom headgate adjustment bolts are not set correctly	Refer to page 5, headgate bounce back adjustment
Manual Release lever does not move freely	Paint or gummed up pivot point	Lubricate with light lubricant (WD40)

MODEL ERCRH

Problem	Possible Cause	Possible Remedy
When operating the on board push button, headgate will not open	1.) Battery not connected or battery is low 2.) Poor connections on switch or switch is malfunctioning 3.) Poor connection on relay or latch solenoid.	1.) Check connections on battery to insure they are secure and are connected to the appropriate battery terminals. Red to Positive and Black to Negative 2.) Remove switch cover and inspect wire connections for corrosion or loose terminals. Replace switch if needed 3.) Check all connections
When operating remote control unit chute will not attempt to open	1.) Remote battery is dead 2.) Remote needs to be re-programmed 3.) Poor connections going into on-board opener under hood 4.) On-board control unit failed	1.) Replace battery in handheld remote and refer to page 6 for programming instructions 2.) Check all connections 3.) Contact your dealer for replacement
Range of remote is Minimal	Low battery on handheld remote	Replace battery in handheld remote
My solar panel is not functioning	1.) Battery is bad 2.) A wire has come loose under the hood	1.) Ensure battery is operational 2.) Ensure that the distance of wires is not longer than 25' and all connections are secure

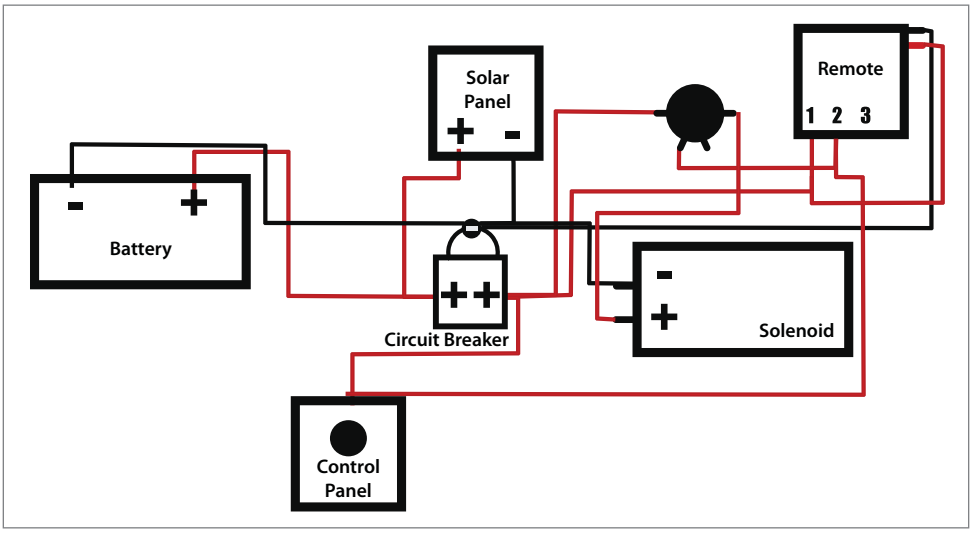
MODELS ERCRHT & ERCRHTP

Problem	Possible Cause	Possible Remedy
Headgate will not open with remote or side controls, back gate will not close or open properly, and pusher bar will not operate	1.) Low air pressure or no air pressure 2.) Low battery or dead battery	1.) Check on board pressure gauge to insure you are operating with 85-95 psi. 2.) Check battery connections and battery voltage. Note: Min Voltage should be 11.7
Headgate and back gate will not operate with handheld remote only	1.) Low or dead battery in handheld 2.) Faulty remote	1.) Replace hand held battery (requires a lithium 3v CR2032) 2.) Replace handheld remote
Front gate will not latch closed when opening back gate	1.) Low air pressure or metering valves on rear gate air cylinder are set too low 2.) Dry hinge points	1.) Open valves by turning adjustment screw counter clockwise 2.) Lubricate all hinge points
Rear Pusher bar will not stay in the up position	Leak in airline or valve	Check all airline connections and replace airline or valve if needed
Range of hand held remote is Minimal	Low battery on handheld remote	Replace battery in handheld remote

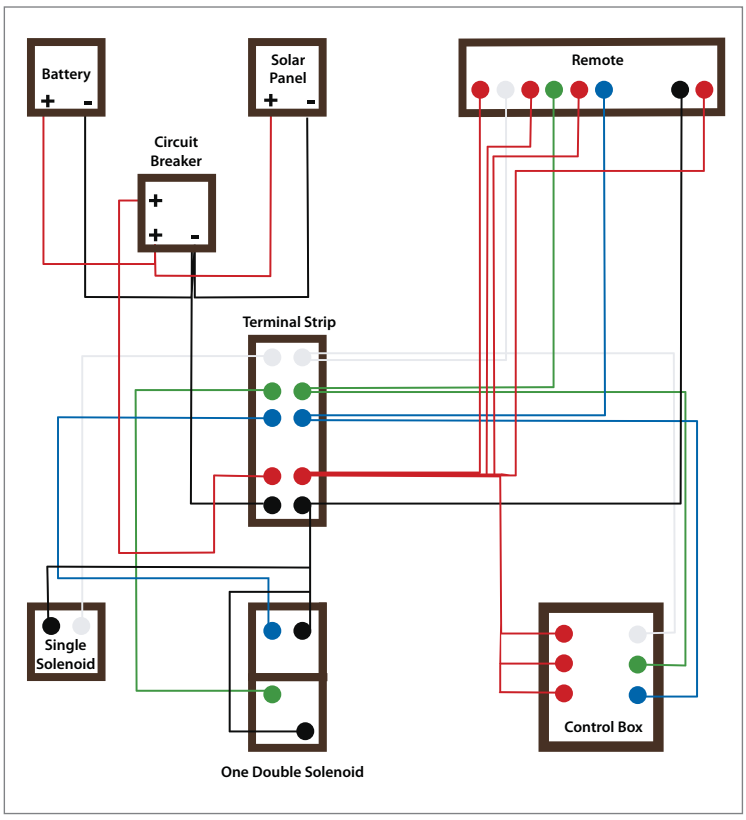
WIRING DIAGRAMS

Your Tarter Roping Chutes have all been wired correctly from the factory. In the event that your chute requires re-wiring, please refer to these diagrams to assist you in re-wiring your chute.

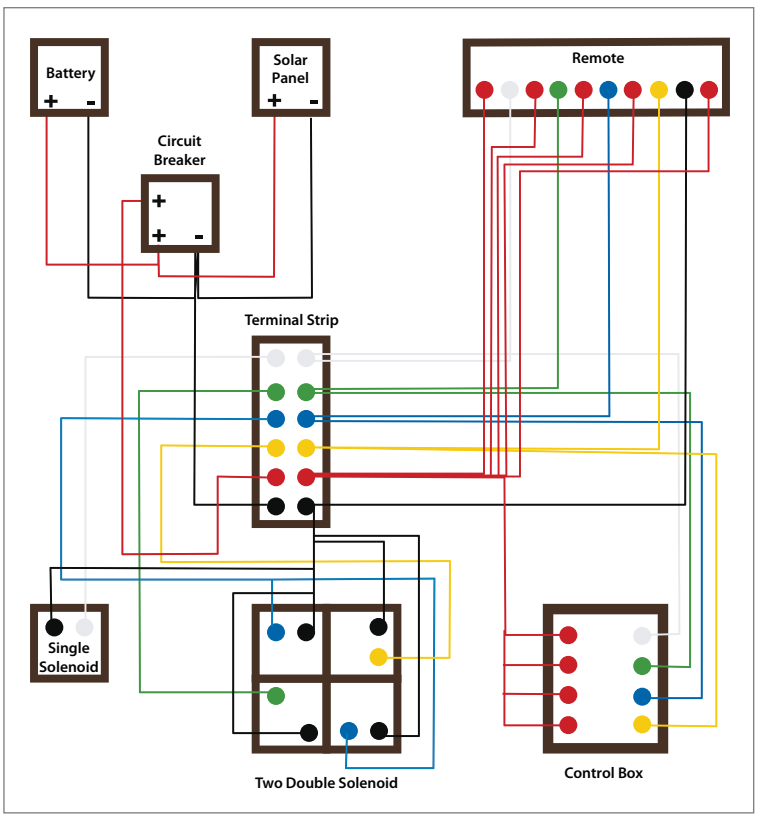
FOR MODEL: ERCRH



FOR MODEL: ERCRHT



FOR MODEL: ERCRHTP



TARTER

FARM AND RANCH EQUIPMENT